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c27 49. (New) The plant matter according to claim 45, wherein said plant cells are tobacco plant cells.

50. (New) The plant matter according to claim 45, wherein said mammalian peptide is interferon.

51. (New) The plant matter according to claim 45, wherein said plant matter is edible.

52. (New) The plant matter according to claim 51, wherein said mammalian peptide has a physiological effect upon ingestion by a mammal.

53. (New) The plant matter according to claim 52, wherein said physiological effect is regulation of digestive function.

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c37 54. (New) Dicotyledonous plant cells having an integrated sequence comprising: a first expression cassette having as operatively linked components in the direction of transcription (1) a first transcriptional and translational initiation region functional in said dicotyledonous plant cells, (2) a first structural gene coding for a mammalian peptide, and (3) a first termination region, whereby said dicotyledonous plant cells express said first structural gene.

55. (New) The dicotyledonous plant cells according to claim 54, wherein said integrated sequence further comprises a second expression cassette having as operatively linked components in the direction of transcription (1) a second transcriptional and translational initiation region functional in said dicotyledonous plant cells, (2) a second structural gene coding for a second peptide which allows for selection of plant cells expressing said second peptide, and (3) a second termination region.

56. (New) The dicotyledonous plant cells according to claim 54, wherein said plant cells are tobacco plant cells.

57. (New) The dicotyledonous plant cells according to claim 54, wherein said plant cells are seed cells.

58. (New) The dicotyledonous plant cells according to claim 54, wherein said plant cells are rapeseed cells.

59. (New) The dicotyledonous plant cells according to claim 54, wherein said first expression cassette further comprises (4) a T-DNA boundary.

60. (New) The dicotyledonous plant cells according to claim 54, wherein said first transcriptional and translational initiation region is inducible.

61. (New) The dicotyledonous plant cells according to claim 54, wherein said mammalian peptide is an interferon.

62. (New) A lysate comprising: a mammalian peptide, wherein said lysate is obtained from plant cells that express said mammalian peptide.

63. (New) The lysate according to claim 62, wherein said plant cells are seed cells.

64. (New) The lysate according to claim 62, wherein said plant cells are rapeseed cells.

65. (New) The lysate according to claim 62, wherein said mammalian peptide is a mature mammalian peptide.

66. (New) The lysate according to claim 62, wherein said plant cells are tobacco plant cells.

67. (New) The lysate according to claim 62, wherein said mammalian peptide is interferon.

68. (New) The lysate according to claim 62, wherein said lysate is edible.

69. (New) The lysate according to claim 68, wherein said mammalian peptide has a physiological effect upon ingestion by a mammal.

70. (New) The lysate according to claim 69, wherein said physiological effect is regulation of digestive function.